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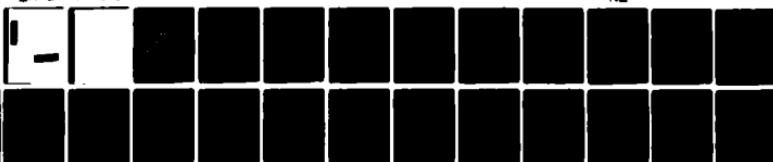
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2  
12023A LANCE, MISSILE NUMBER 4379, ROUND NUMBER 352 ECL.(U)

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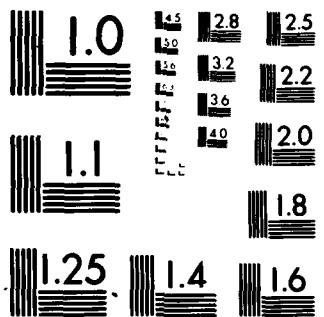
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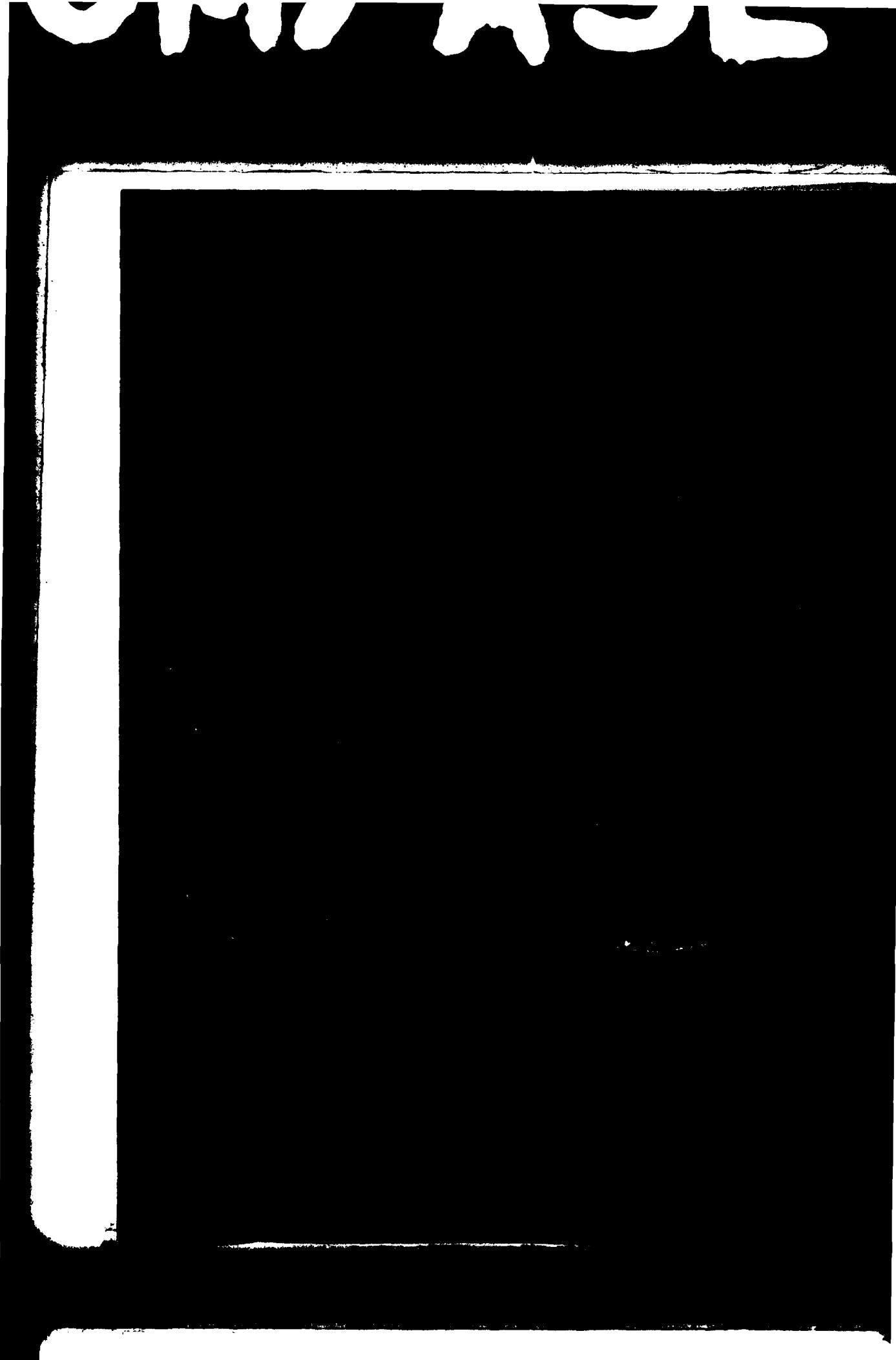
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Metereological data gathered for the launching of the 12823A LANCE, Missile Number 4379, Round Number 352 ECL, presented in tabular form.		

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## INTRODUCTION

12823A LANCE, Missile Number 4379, Round Number 352 ECL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0843 MDT on 1 July 1980. The scheduled launch time was 0730 MDT.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm/m}^3$ ), Wind direction and speed, and cloud cover were made at the Don Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pilbar observation at:

### SITE AND ALTITUDE

Don	2160m	0735 MDT
	3180m	0843 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-feet increments.

### SITE AND TIME

HMN	0720 MDT
JAL	0720 MDT

TABLE 1. Surface Observations Taken at 0845 MDT,  
1 July 1980, at Don Site, 12823A LANCE,  
Missile Number 4379, Round Number 352 ECL.

ELEVATION	4064	FT/MSL
PRESSURE	883.2	MBS
TEMPERATURE	27.2	°C
RELATIVE HUMIDITY	38	%
DEW POINT	11.7	°C
DENSITY	1016	GM/M <sup>3</sup>
WIND SPEED	04	KTS
WIND DIRECTION	270	DEGREES
CLOUD COVER	1	AC C1

## PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM Don Site

DATE 1 July 1980

1 July 1980

TIME

0735 MDT

COORDINATES (WSTM) X = 511,988.37 Y = 247,396.36 H = 3,996.83

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL \_\_\_\_\_.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
0	250	04
60	MISG	MISG
120	MISG	MISG
180	240	11
240	240	10
300	230	09
360	265	07
420	255	04
480	255	03
540	210	07
600	240	09
660	250	08
720	250	08
780	230	08
840	235	10
900	255	11
960	240	12
1020	245	13
1080	245	14
1140	255	15
1200	265	16
1260	255	15
1320	245	16
1380	255	18
1440	260	19
1500	260	19
1560	255	23
1620	255	25
1680	255	24
1740	260	25
1800	265	26

## PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM Don Site DATE 1 July 1980 TIME 0843 MDT

COORDINATES (WSTM) X = 511,988.37 Y = 247,396.36 H = 3,996.83

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL \_\_\_\_.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
0	270	04
60	MISG	MISG
120	175	09
180	205	09
240	190	14
300	195	13
360	205	13
420	210	13
480	220	15
540	230	16
600	235	18
660	235	15
720	250	12
780	255	12
840	255	13
900	255	14
960	250	16
1020	245	16
1080	250	18
1140	245	17
1200	250	17
1260	250	18
1320	250	19
1380	250	20
1440	250	21
1500	255	23
1560	255	23
1620	250	25
1680	250	25
1740	260	24
1800	265	25

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 60 0720 HRS MDT  
ASCENSION NO. 222

SIGNIFICANT LEVEL DATA  
1830010222  
HOLLOWMAN  
TABLE 4.

GEODEMIC COORDINATES  
32° 08' 8.65" LAT DEG  
106° 09' 65" LON DEG

PRESSURE GEOMETRIC MILLIBARS MSL FELT	ALITUDE MILLIBARS MSL FELT	TEMPERATURE DEGREES CENTIGRADE	AIR DEPOINT CENTIGRADE	REL.HUM. PERCENT
878.5	4126.6	23.3	10.0	43.0
850.0	5069.2	21.5	10.0	48.0
835.4	5562.8	21.3	9.5	47.0
808.8	6480.7	19.1	8.1	49.0
800.4	6775.7	19.1	7.6	48.0
741.0	8939.4	15.1	5.0	51.0
700.0	10514.8	11.3	3.3	58.0
635.5	13143.7	5.5	-2.8	55.0
600.2	14673.2	2.5	-3.4	65.0
576.1	15760.4	.8	-8.2	51.0
549.6	17001.6	-7.9	-7.7	60.0
522.0	18346.6	-4.5	-8.8	72.0
500.0	19459.6	-6.2	-11.7	65.0
467.2	21194.5	-10.2	-13.1	79.0
425.4	23549.6	-15.4	-16.3	93.0
411.4	24378.7	-17.4	-17.5	99.0
400.0	25070.8	-18.5	-18.6	99.0
355.0	27965.9	-25.0	-25.1	99.0
338.6	29092.8	-27.4	-29.4	83.0
327.8	29658.2	-29.3	-39.3	37.0
322.4	30248.4	-29.8	-42.7	27.0
311.8	31032.0	-30.4	-42.6	29.0
300.0	31931.0	-32.7	-45.3	27.0
271.4	31225.3	-38.8	-49.7	30.0
250.0	36060.7	-44.2		
243.8	37529.3	-47.7		
215.8	39254.0	-52.4		
202.8	40581.4	-51.2		
200.0	40178.4	-52.4		
177.8	43354.9	-57.8		
157.0	46051.9	-62.5		
146.6	47318.3	-62.5		

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 222

SIGNIFICANT LEVEL DATA  
1830010222  
HOLLOWAY

GEODETIC COORDINATES  
32°04'865 LAT DEG  
106.09965 LON DEG

TABLE 4 (continued)

PRESSURE GEOMETRIC MILLIBARS MSL FET	ALTITUDE DEGREES CENTIGRAVE	TEMPERATURE AIR DEPTH IN CENTIGRAVE	REL.HUM. PERCENT
145.0	47541.9	-61.8	
106.8	53621.5	-72.9	
103.2	54285.7	-72.5	
100.0	54900.6	-69.7	
96.4	55624.3	-68.3	
88.0	59350.1	-70.2	
78.0	61957.0	-64.6	
67.2	62785.1	-62.2	
50.0	68077.9	-58.1	
42.4	72321.9	-56.6	
36.4	75558.1	-51.6	
30.0	79719.9	-50.3	
26.8	82160.3	-49.4	

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80 ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOWAY

TABLE 5.

GEOMETRIC ALTITUDE MSL FT	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEMPPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TIN)	SPEED KNOTS	INDEX OF REFRACTION
4126.6	878.5	23.3	10.0	43.0	1026.9	672.5	240.0	8.0	1.000282
4510.0	867.1	22.6	10.1	45.0	1015.9	671.8	229.7	8.1	1.000280
5000.0	852.1	21.6	10.0	47.6	1001.4	670.7	217.1	8.7	1.000277
5500.0	837.2	21.3	9.6	47.1	985.1	670.3	206.6	9.7	1.000272
6000.0	822.6	20.3	8.9	48.0	971.6	669.1	198.2	10.9	1.000267
6500.0	808.2	19.1	8.1	48.9	958.6	667.7	207.9	10.0	1.000262
7010.0	794.0	18.7	7.6	48.5	943.1	667.2	223.8	9.2	1.000257
7500.0	780.0	17.8	6.9	49.0	929.5	666.1	238.4	10.7	1.000252
8000.0	766.2	16.8	6.3	49.7	916.1	665.0	247.4	13.4	1.000247
8500.0	752.7	15.9	5.6	50.4	903.0	663.9	249.5	16.5	1.000243
9000.0	739.4	15.0	5.0	51.3	890.7	662.7	249.4	19.2	1.000238
9500.0	726.1	13.7	4.5	52.5	877.9	661.3	247.9	20.6	1.000234
10000.0	713.1	12.5	3.9	55.7	865.9	659.9	245.6	21.2	1.000231
10500.0	700.4	11.3	3.4	57.9	854.0	658.5	242.2	21.9	1.000227
11000.0	687.6	10.2	2.2	57.4	842.1	657.1	237.2	22.5	1.000221
11500.0	675.1	9.1	1.0	56.9	830.1	655.7	235.2	23.2	1.000216
12000.0	662.8	8.0	-1	56.3	818.4	654.4	230.6	25.6	1.000211
12500.0	650.7	6.9	-1.3	55.7	806.8	653.0	228.3	24.0	1.000207
13000.0	638.9	5.8	-2.5	54.9	795.4	651.7	227.2	24.1	1.000202
13500.0	627.1	4.8	-2.9	57.3	783.6	650.5	226.2	24.3	1.000199
14000.0	615.5	3.8	-3.1	60.6	771.8	649.3	225.0	24.5	1.000195
14500.0	604.1	2.6	-3.3	63.9	760.2	648.2	223.8	24.6	1.000193
15000.0	592.9	2.0	-4.8	60.6	748.6	647.1	221.1	23.5	1.000188
15500.0	581.8	1.2	-7.0	59.4	737.0	646.0	217.8	22.3	1.000182
16000.0	570.9	0.5	-8.0	52.7	725.2	645.1	211.9	20.6	1.000178
16500.0	560.2	-0.2	-7.6	56.4	713.3	644.4	205.3	19.5	1.000176
17000.0	549.6	-1.9	-7.7	60.0	701.6	643.6	199.5	20.4	1.000174
17500.0	539.2	-2.2	-8.0	64.4	691.7	642.0	194.5	21.6	1.000171
18000.0	529.0	-3.6	-8.4	68.9	682.0	640.4	190.5	23.3	1.000169
18500.0	518.9	-4.7	-7.2	71.0	672.0	639.0	186.2	24.5	1.000166
19000.0	509.0	-5.5	-11n.5	67.9	661.1	638.0	180.7	24.8	1.000162
19500.0	499.2	-6.3	-11.7	65.3	650.5	637.0	175.9	24.9	1.000158

STATION ALTITUDE 4126.59 FEET MSL  
 1 JULY 80 0720 HRS MDT  
 ASCENTION NO. 222

UPPER AIR DATA  
 1830010222  
 HOLLOWMAN

GEODETIC COORDINATES  
 32°88.865 LAT DEG  
 106.09965 LON DEG

TABLE 5 (continued)

GEODETIC ALTITUDE MSL FTS	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT PERCENT	REL.HUM. PERCENT	SOUND M/CUBIC METER	WIND DATA DIRECTION DEGREES TN	SPEED KNOTS	INDEX OF REFRACTION
20000.0	489.5	-7.4	-12.1	69.4	640.6	635.6	171.7	24.5
20500.0	480.1	-8.6	-12.5	73.4	631.0	639.2	168.5	23.5
21000.0	470.8	-9.8	-12.9	77.4	621.5	632.8	167.1	21.8
21500.0	461.6	-10.9	-13.5	80.8	612.0	631.5	167.1	20.2
22000.0	452.5	-12.0	-14.1	83.8	602.5	630.1	173.7	19.1
22500.0	443.5	-13.1	-14.8	86.8	593.2	628.8	181.0	18.4
23000.0	434.9	-14.2	-15.5	89.7	584.0	627.4	183.8	19.1
23500.0	426.2	-15.3	-16.2	92.7	575.0	626.1	186.1	20.0
24000.0	417.7	-16.5	-16.9	96.3	566.2	624.6	186.6	20.5
24500.0	409.4	-17.6	-17.7	99.0	557.3	623.2	184.8	20.2
25000.0	401.2	-18.4	-18.5	99.0	547.8	622.2	183.6	20.2
25500.0	393.9	-19.5	-19.6	99.0	539.0	620.9	183.9	20.6
26000.0	385.0	-20.6	-20.7	99.0	530.4	619.5	183.8	21.1
26500.0	377.1	-21.7	-21.8	99.0	521.9	618.1	182.2	22.0
27000.0	369.4	-22.8	-22.9	99.0	513.6	616.7	180.9	22.9
27500.0	361.9	-24.0	-24.1	99.0	505.4	615.3	180.8	23.6
28000.0	354.5	-25.1	-25.2	98.5	497.4	613.9	180.9	24.0
28500.0	347.1	-26.1	-27.1	91.4	489.2	612.5	181.5	23.6
29000.0	339.9	-27.2	-29.0	84.3	481.2	611.2	182.7	22.3
29500.0	332.8	-28.4	-34.0	58.5	473.5	609.6	185.5	19.7
30000.0	325.8	-29.5	-40.4	33.4	465.4	608.2	188.7	17.4
30500.0	319.0	-30.0	-42.7	27.6	456.9	607.5	192.0	15.7
31000.0	312.2	-30.4	-42.6	26.9	447.9	607.1	194.6	14.5
31500.0	305.6	-31.6	-44.0	28.0	440.7	605.5	193.1	14.8
32000.0	299.1	-32.9	-45.4	27.1	433.6	603.9	191.7	15.2
32500.0	292.6	-34.2	-46.3	27.7	426.6	602.2	186.6	15.6
33000.0	286.3	-35.5	-47.3	28.4	419.7	600.5	181.5	16.2
33500.0	280.1	-36.9	-48.3	29.1	413.0	598.9	177.6	16.5
34000.0	274.1	-38.2	-49.3	29.7	406.4	597.2	174.9	16.6
34500.0	268.1	-39.6	-51.8	25.5*	399.9	595.4	172.6	16.6
35000.0	262.2	-41.1	-56.3	17.3**	393.5	593.5	173.9	16.9
35500.0	256.4	-42.6	-62.4	9.2**	387.3	591.6	175.1	17.1

\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 1960 0720 HRS MDT  
ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOWAY  
TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	GMI/CUBIC METER	SOUND KNOTS	WIND DATA DIRECTION DEGREES(TIN) SPEED KNOTS	INDEX OF REFRACTION
36000.0	250.0	-44.0	70.0*	1.00*	381.1	589.7	174.9
36500.0	245.0	-45.2			374.6	588.1	174.4
37000.0	239.5	-46.4			368.0	586.6	175.8
37500.0	234.1	-47.6			361.6	585.0	175.1
38000.0	228.7	-49.0			355.5	583.3	172.9
38500.0	223.5	-50.3			349.4	581.5	173.1
39000.0	219.4	-51.7			343.5	579.7	171.3
39500.0	215.3	-52.2			336.3	579.1	160.2
40000.0	210.9	-51.7			327.9	579.7	166.6
40500.0	205.6	-51.3			319.6	580.3	166.4
41000.0	199.8	-52.7			314.2	578.5	167.2
41500.0	194.2	-53.8			308.3	577.0	169.1
42000.0	189.6	-54.8			302.6	575.6	171.9
42500.0	185.2	-55.9			297.0	574.2	175.5
43000.0	180.8	-57.0			291.5	572.7	180.9
43500.0	176.6	-58.0			285.9	571.4	189.9
44000.0	172.3	-58.7			279.9	570.5	198.5
44500.0	168.2	-59.3			274.0	569.7	202.8
45000.0	164.1	-60.0			268.3	568.8	207.0
45500.0	160.2	-60.7			262.7	567.9	207.5
46000.0	156.3	-61.4			257.2	567.0	201.2
46500.0	152.6	-62.0			251.8	566.1	193.8
47000.0	148.9	-62.5			246.3	565.4	184.7
47500.0	145.3	-61.9			239.6	566.2	179.8
48000.0	141.7	-62.6			234.5	565.2	180.0
48500.0	138.2	-63.2			229.7	564.0	183.6
49000.0	134.7	-64.3			224.9	562.8	186.5
49500.0	131.4	-65.4			220.3	561.6	191.0
50000.0	128.1	-66.3			215.8	560.3	196.3
50500.0	125.0	-67.2			211.4	559.1	201.1
51000.0	121.9	-68.1			207.0	557.8	202.7
51500.0	118.8	-69.0			202.8	556.6	207.8

\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCRPTION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOWAY

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEGREES C	WINDPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
52000.0	115.9	-69.9	-70.9	198.6	555.4	210.3	7.2	1.000044		
52500.0	113.0	-70.9	-70.9	194.6	554.1	216.6	4.1	1.000043		
53000.0	110.2	-71.0	-71.0	190.6	552.9	217.4	2.4	1.000042		
53500.0	107.5	-72.7	-72.7	186.7	551.6	195.1	2.6	1.000042		
54000.0	104.7	-72.7	-72.7	182.0	551.6	178.1	3.1	1.000041		
54500.0	102.1	-71.5	-71.5	176.4	553.2	155.9	3.5	1.000039		
55000.0	99.5	-69.5	-69.5	170.2	555.9	135.1	4.4	1.000038		
55500.0	97.0	-68.5	-68.5	165.2	557.3	108.8	5.2	1.000037		
56000.0	94.6	-68.5	-68.5	161.0	557.3	65.6	8.4	1.000036		
56500.0	92.2	-68.5	-68.5	157.2	557.0	50.1	13.5	1.000035		
57000.0	89.9	-69.0	-69.0	153.4	556.6	45.1	16.8	1.000034		
57500.0	87.6	-69.3	-69.3	149.8	556.3	42.4	19.0	1.000033		
58000.0	85.5	-69.5	-69.5	146.2	555.9	40.4	21.0	1.000033		
58500.0	83.3	-69.8	-69.8	142.7	555.6	46.3	17.4	1.000032		
59000.0	81.2	-70.0	-70.0	139.3	555.2	55.2	14.0	1.000031		
59500.0	79.2	-69.8	-69.8	135.7	555.6	67.6	11.7	1.000030		
60000.0	77.2	-68.7	-68.7	131.6	557.0	81.3	11.0	1.000029		
60500.0	75.3	-67.7	-67.7	127.7	558.4	96.0	10.9	1.000028		
61000.0	73.4	-66.6	-66.6	123.9	559.9	101.2	11.2	1.000028		
61500.0	71.6	-65.6	-65.6	120.2	561.3	102.5	11.5	1.000027		
62000.0	69.9	-64.5	-64.5	116.6	562.8	103.7	11.8	1.000026		
62500.0	68.2	-63.0	-63.0	113.0	564.7	104.5	12.6	1.000025		
63000.0	66.5	-62.1	-62.1	109.7	566.0	105.2	13.3	1.000024		
63500.0	64.9	-61.7	-61.7	106.9	566.5	107.8	14.2	1.000024		
64000.0	63.4	-61.4	-61.4	104.2	566.9	115.0	15.4	1.000023		
64500.0	61.9	-61.0	-61.0	101.6	567.4	121.1	16.9	1.000023		
65000.0	60.4	-60.7	-60.7	99.0	567.8	125.9	17.5	1.000022		
65500.0	58.9	-60.4	-60.4	96.4	568.3	122.6	16.6	1.000021		
66000.0	57.5	-60.0	-60.0	94.0	568.7	121.2	15.8	1.000021		
66500.0	56.1	-59.7	-59.7	91.6	569.2	115.3	14.8	1.000020		
67000.0	54.8	-59.4	-59.4	89.2	569.6	105.5	14.1	1.000020		
67500.0	53.5	-59.0	-59.0	87.0	570.1	91.0	14.0	1.000019		

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 60 0720 HRS MDT  
ASCENSION NO. 222

UPPER AIR DATA  
18301010222  
HOLLOWAY

GEODETIC COORDINATES  
32.64865 LAT DEG  
106.04996 LONG DEG

TABLE 5 (continued)

GEODETIC ALTIMETER MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
68000.0	52.2	-58.7	84.8	570.5	84.5	15.8	1.000019	
68500.0	51.9	-58.4	82.6	571.0	82.6	18.6	1.000018	
69000.0	49.7	-58.0	80.5	571.4	81.6	21.4	1.000018	
69500.0	48.5	-57.6	78.5	571.7	84.5	22.2	1.000017	
70000.0	47.4	-57.6	76.6	572.0	89.7	22.0	1.000017	
70500.0	46.3	-57.4	74.7	572.2	94.9	22.0	1.000017	
71000.0	45.2	-57.2	72.9	572.5	98.7	21.6	1.000016	
71500.0	44.1	-57.0	71.1	572.8	102.2	21.2	1.000016	
72000.0	43.1	-56.7	69.3	573.1	105.6	20.8	1.000015	
72500.0	42.0	-56.3	67.6	573.7	102.1	21.1	1.000015	
73000.0	41.1	-55.6	65.7	574.7	98.1	21.6	1.000015	
73500.0	40.1	-54.8	64.0	575.7	94.2	22.2	1.000014	
74000.0	39.2	-54.0	62.3	576.7	90.3	22.1	1.000014	
74500.0	38.3	-53.2	60.6	577.7	86.4	22.1	1.000014	
75000.0	37.4	-52.5	59.0	578.7	82.8	22.3	1.000013	
75500.0	36.5	-51.7	57.4	579.8	81.4	23.2	1.000013	
76000.0	35.7	-51.5	56.0	580.1	80.0	24.2	1.000012	
76500.0	34.8	-51.3	54.7	580.3	79.7	25.0	1.000012	
77000.0	34.0	-51.1	53.4	580.5	82.5	25.6	1.000012	
77500.0	33.2	-51.0	52.2	580.7	85.1	26.2	1.000012	
78000.0	32.5	-50.8	50.9	580.9	87.6	26.9	1.000011	
78500.0	31.7	-50.7	49.7	581.1	90.7	27.4	1.000011	
79000.0	31.0	-50.5	48.5	581.3	93.6	27.9	1.000011	
79500.0	30.3	-50.4	47.4	581.5	96.3	28.5	1.000011	
80000.0	29.6	-50.2	46.3	581.7	98.3	28.5	1.000010	
80500.0	28.9	-50.0	45.2	581.9	95.2	28.5	1.000010	
81000.0	28.3	-49.8	44.1	582.2	94.1	28.5	1.000010	
81500.0	27.6	-49.6	43.1	582.4	93.1	28.5	1.000010	
82000.0	27.1	-49.5	42.0	582.7	92.0	28.5	1.000009	

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 60 0720 HRS MDT  
ASCENSION NO. 222

MANDATORY LEVELS

18300102222

HOLLOWMAN

GEODETIC COORDINATES  
32.68865 LAT DEG  
106.09965 LONG DEG

TABLE 6.

MILLIBARS	FLEET	PRESSURE GEOPOTENTIAL DEGREES CENIGRADE	TEMPERATURE AIR DEGREES CENIGRADE	REL.HUM. PERCENT	DIRECTION DEGREES (TN)	SPEED KNOBS
450.0	43573.	21.5	10.0	48.	215.0	8.6
400.0	38666.	19.1	7.0	46.	216.7	9.5
350.0	67605.	15.7	5.0	51.	209.5	16.9
300.0	8505.	11.3	3.3	58.	242.1	21.9
250.0	10505.	-1.4	36.	226.2	24.0	
200.0	12522.	6.9	-3.4	65.	222.9	24.2
150.0	16665.	2.5	-7.7	60.	199.8	20.4
125.0	16961.	-9	-11.7	65.	176.3	25.0
100.0	19433.	-6.2	-14.3	85.	175.6	16.9
80.0	22109.	-12.3	-18.5	99.	163.6	20.2
60.0	25029.	-18.5	-26.4	9%	161.2	23.6
50.0	28254.	-25.7	-45.3	27.	191.9	15.1
300.0	31866.	-32.7			174.6	17.9
250.0	35982.	-44.2			166.7	19.3
200.0	40760.	-52.4			192.0	14.4
175.0	43573.	-59.2			187.2	12.7
150.0	46726.	-62.5			200.1	20.8
125.0	50388.	-67.2			139.0	4.1
100.0	54732.	-69.7			61.9	12.4
80.0	59105.	-70.2			103.0	11.6
70.0	61745.	-64.6			123.7	17.4
60.0	64874.	-60.6			81.9	20.5
50.0	68162.	-58.1			94.1	22.2
40.0	73257.	-54.7			97.3	26.7
30.0	74380.	-50.3				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 66 0720 HRS NOT  
ASCENSION NO. 149

SIGNIFICANT LEVEL DATA  
1030030105

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 7.

PRESSURE GEOMETRIC MILLIBARS MSL FEET	ALTITUDE DEGREES CENTIGRADE	TEMPERATURE AIR DEPOINT PERCENT	REL. HUM. PERCENT
661.0	4051.0	22.0	8.2
670.4	4396.5	22.0	11.7
682.6	4653.0	22.6	12.3
696.0	5074.7	22.1	11.5
745.4	6786.4	16.0	6.4
760.0	10531.2	12.1	3.9
651.3	12499.6	6.6	0.9
616.0	14261.4	0.9	-1.6
526.0	16182.7	-3.2	-9.6
580.0	19496.3	-6.0	-14.0
485.8	20236.9	-7.5	-12.5
479.4	21061.0	-8.5	-15.3
447.6	22322.5	-11.5	-16.9
432.8	23168.5	-13.2	-18.9
460.0	25126.2	-16.1	-22.9
381.2	26303.9	-21.0	-24.2
376.6	26599.6	-21.4	-26.5
363.2	27176.4	-22.7	-30.6
343.2	28636.0	-25.1	-32.9
380.0	32006.0	-32.9	-41.4
253.6	35623.1	-42.4	-50.5
250.9	36191.0	-43.1	
217.4	39186.4	-51.1	
280.0	40966.5	-53.5	
176.0	43651.1	-57.7	
163.6	45158.2	-61.3	
151.6	46720.3	-60.3	
158.0	46937.9	-61.2	
189.6	53229.6	-70.0	
182.8	54178.4	-72.8	
180.0	55016.3	-70.4	
97.6	55494.9	-68.2	

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 163

SIGNIFICANT LEVEL DATA  
1830030185  
JALLEN

GEOODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

TABLE 7 (continued)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEMPPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
86.0 57969.0	-70.2	
70.0 62106.0	-62.4	
50.0 69055.1	-57.0	
32.6 76101.5	-52.4	
30.0 79868.1	-50.1	
28.4 81076.2	-48.7	

STATION ALTITUDE 9651.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 183

UPPER AIR DATA  
1830030185  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 8.

GEODETIC ALTITUDE MSL MIL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
4051.0	881.0	22.0	41.0	1035.0	670.9	.0
4500.0	867.5	22.2	52.0	1016.6	105.6	1.0
5000.0	852.2	22.2	51.2	999.1	671.6	2.1
5500.0	837.5	21.4	10.9	984.4	105.6	1.000262
6000.0	822.6	20.6	10.2	970.0	669.6	1.000277
6500.0	808.2	19.8	9.6	955.9	668.6	1.000271
7000.0	794.9	18.9	8.9	941.9	667.6	1.000266
7500.0	780.1	18.1	8.2	928.1	666.6	1.000261
8000.0	766.6	17.3	7.5	914.6	665.6	1.000255
8500.0	753.8	16.5	6.8	901.2	664.6	1.000250
9000.0	739.7	15.7	6.1	888.3	663.5	1.000241
9500.0	726.5	14.9	5.4	876.0	662.2	1.000236
10000.0	713.3	13.3	4.7	863.9	660.6	1.000232
10500.0	699.8	12.2	3.9	851.9	659.5	1.000227
11000.0	686.1	10.6	3.2	840.6	657.9	1.000223
11500.0	673.0	9.4	2.5	829.6	656.2	1.000220
12000.0	660.3	8.0	1.7	816.7	655.5	1.000216
12500.0	651.3	6.6	.9	808.0	652.8	1.000212
13000.0	639.3	6.1	-1.6	62.2	794.7	1.000206
13500.0	627.6	5.6	-2.1	57.4	652.2	23.5
14000.0	616.0	5.2	-3.7	52.5	651.5	24.6
14500.0	604.6	4.8	-4.9	50.7	768.9	23.8
15000.0	593.3	3.4	-5.5	52.1	649.9	22.6
15500.0	582.2	2.0	-6.1	53.5	745.5	21.2
16000.0	571.3	1.3	-6.7	54.9	648.7	20.6
16500.0	560.6	1.3	-7.4	56.3	723.3	19.9
17000.0	550.1	1.0	-8.0	57.7	712.5	20.4
17500.0	539.8	-1.8	-8.7	59.1	643.7	21.5
18000.0	529.6	-2.6	-9.4	60.5	641.4	22.3
18500.0	519.0	-3.9	-10.7	59.1	670.9	22.8
19000.0	509.7	-4.9	-12.3	56.0	638.6	23.2
19500.0	499.9	-6.0	-14.0	53.1	650.9	22.9

STATION ALTITUDE 4001.00 FEET MSL  
1 JUL 60 0720 HRS MDT  
ASCENSION NO. 163

UPPER AIR DATA  
1630030185  
JALLEN

GEOGRAPHIC COORDINATES  
53.16712 LAT DEG  
106.49511 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METERS	SPEED OF WIND DATA KNOTS	DIRECTION DEGREES(TN)	INDEX OF REFRACTION
20000.0	990.3	-7.0	62.5	640.7	636.1	176.3	23.2
20500.0	980.8	-7.0	63.4	630.2	635.1	173.4	23.1
21000.0	971.5	-6.4	58.7	619.6	634.3	170.3	22.9
21500.0	962.3	-9.5	61.8	610.1	633.0	168.9	22.3
22000.0	953.3	-10.7	65.6	600.9	631.6	169.5	21.1
22500.0	944.3	-11.9	67.5	591.7	630.2	172.9	20.5
23000.0	935.7	-12.9	63.4	582.4	628.9	178.4	20.3
23500.0	927.1	-14.0	63.5	573.5	627.5	182.4	20.3
24000.0	918.0	-15.3	620.2	654.8	625.9	185.7	20.3
24500.0	910.2	-16.5	621.0	661.1	566.3	624.4	185.9
25000.0	902.9	-17.6	70.4	547.9	622.9	186.7	19.7
25500.0	393.9	-19.0	72.3	539.5	621.3	188.5	20.0
26000.0	396.9	-20.3	72.3	531.2	619.8	186.2	20.4
26500.0	378.1	-21.3	67.0	522.6	618.5	187.0	20.9
27000.0	370.4	-22.0	56.1	513.5	617.6	185.1	21.4
27500.0	362.8	-22.7	50.0	504.5	616.6	183.3	22.0
28000.0	355.4	-23.6	51.5	495.9	615.5	185.5	22.1
28500.0	348.1	-24.5	48.0	487.4	614.4	187.8	21.9
29000.0	340.8	-25.5	43.3	47.7	479.3	613.2	191.1
29500.0	333.7	-26.7	46.6	46.7	471.6	611.7	194.6
30000.0	326.7	-28.0	45.6	464.0	610.1	197.2	17.8
30500.0	319.8	-29.2	44.9	456.6	608.6	199.3	16.8
31000.0	313.1	-30.4	43.9	449.2	607.0	199.2	16.5
31500.0	306.5	-31.7	40.0	43.0	442.1	605.5	197.8
32000.0	300.1	-32.9	41.4	42.0	435.0	603.9	194.6
32500.0	293.3	-34.1	42.6	41.7	427.8	602.4	191.9
33000.0	287.2	-35.4	43.6	41.5	420.6	600.8	189.7
33500.0	280.9	-36.6	45.0	41.2	413.7	599.2	187.3
34000.0	274.6	-37.9	46.2	41.0	406.8	597.6	184.7
34500.0	268.3	-39.1	47.4	40.7	400.1	596.0	182.9
35000.0	263.0	-40.4	48.6	40.4	393.5	594.4	181.8
35500.0	257.2	-41.6	49.8	40.2	387.0	592.8	181.3

SATION ALTITUDE 4021.00 FEET MSL  
1 JULY 60 0720 HRS MDT  
ASCENSION NO. 165

UPPER AIR DATA  
1830030185  
JALLEN  
TABLE 8 (continued)

GEOM. HGT	PRESURE	TEMPERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	INDEX
ALTITUDE	MMBARS	AIR DEPOINT	PERCENT	GM/CUBIC	KNOTS	DIRECTION	OF
MSL FT	MMBARS	DEGREES CENTIGRADE	METER	MM	KNOTS	DEGREES TN	REFRACTION
3600.0	251.6	-42.8	-57.5	17.7**	380.5	591.3	19.6
3650.0	245.9	-44.0		373.9	589.7	180.4	1.000083
3700.0	240.3	-45.4		367.6	588.0	178.1	1.000082
3750.0	234.9	-46.7		361.3	586.3	176.0	1.000080
3800.0	229.0	-48.0		355.2	584.6	174.1	1.000079
3850.0	224.4	-49.3		349.2	582.9	172.0	1.000078
3900.0	219.3	-50.6		343.3	581.2	170.7	1.000076
3950.0	214.2	-51.5		336.8	580.0	169.4	1.000075
4000.0	209.3	-52.2		330.0	579.1	174.9	1.000073
4050.0	204.4	-52.9		323.3	578.2	181.6	1.000072
4100.0	199.7	-53.6		316.8	577.3	190.4	1.000071
4150.0	195.0	-54.3		310.4	576.3	202.2	1.000070
4200.0	190.4	-55.1		304.2	575.3	203.9	1.000069
4250.0	185.9	-55.9		298.1	574.2	201.7	1.000068
4300.0	181.5	-56.7		292.2	573.2	195.3	1.000065
4350.0	177.3	-57.5		286.3	572.1	188.0	1.000064
4400.0	173.0	-58.3		280.9	570.7	185.9	1.000063
4450.0	168.9	-59.7		275.7	569.1	185.8	1.000061
4500.0	164.9	-60.9		270.6	567.5	184.8	1.000060
4550.0	160.9	-61.1		264.3	567.3	185.2	1.000059
4600.0	157.0	-60.8		257.5	567.8	178.8	1.000057
4650.0	153.2	-60.4		251.0	568.2	169.5	1.000056
4700.0	149.5	-61.3		245.9	567.1	161.6	1.000055
4750.0	145.9	-62.0		240.6	566.1	162.6	1.000054
4800.0	142.3	-62.7		235.5	565.2	163.5	1.000052
4850.0	138.8	-63.4		230.4	564.2	168.2	1.000051
4900.0	135.3	-64.1		225.5	563.3	174.7	1.000050
4950.0	132.0	-64.8		220.7	562.4	179.9	1.000049
5000.0	128.0	-65.5		216.0	561.4	183.3	1.000048
5050.0	125.0	-66.2		211.4	560.5	186.9	1.000047
5100.0	122.2	-66.9		206.9	559.5	193.1	1.000046
5150.0	119.5	-67.6		202.5	558.6	214.9	1.000045

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4031.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASSTENION NO. 183

UPPER AIR DATA  
1030030185

JALLEN

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	AIR DEPOINT PERCENT	REL.HUM. PERCENT	DENSITY GR./Cubic METERS	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
52000.0	116.3	-68.3			198.2	557.6	278.5	3.9
52500.0	113.7	-69.0			193.9	556.7	309.5	6.4
53000.0	110.9	-69.7			189.8	555.7	320.4	8.9
53500.0	108.1	-70.6			185.9	554.4	325.4	7.7
54000.0	105.4	-71.7			182.2	552.9	332.1	6.5
54500.0	102.7	-72.7			178.5	551.6	349.2	6.2
55000.0	100.1	-70.5			172.0	554.6	7.9	1.000038
55500.0	97.6	-68.2			165.9	557.7	20.7	1.000037
56000.0	95.1	-68.6			162.0	557.2	28.4	6.5
56500.0	92.7	-69.0			158.3	556.6	38.3	5.6
57000.0	90.4	-69.4			154.6	556.1	56.3	1.000035
57500.0	88.2	-69.8			151.0	555.5	66.8	11.1
58000.0	86.0	-70.2			147.5	555.0	72.8	14.6
58500.0	83.8	-69.2			143.2	556.3	82.1	16.7
59000.0	81.8	-68.3			139.0	557.6	89.1	19.2
59500.0	79.7	-67.3			135.0	558.9	97.8	19.2
60000.0	77.8	-66.4			131.0	560.2	110.8	1.000029
60500.0	75.9	-65.8			127.2	561.5	123.5	17.1
61000.0	74.0	-64.5			123.5	562.7	128.4	13.4
61500.0	72.2	-63.5			119.9	564.0	136.9	9.9
62000.0	70.4	-62.6			116.4	565.3	139.1	6.4
62500.0	68.7	-62.1			113.4	566.0	134.1	7.9
63000.0	67.0	-61.7			110.4	566.5	127.1	6.1
63500.0	65.4	-61.3			107.6	567.0	117.3	11.8
64000.0	63.9	-60.9			104.8	567.5	112.2	15.6
64500.0	62.3	-60.5			102.1	568.1	108.1	16.6
65000.0	60.8	-60.2			99.5	568.6	103.7	16.5
65500.0	59.4	-59.8			97.0	569.1	99.8	16.3
66000.0	58.0	-59.4			94.5	569.6	97.9	15.5
66500.0	56.6	-59.0			92.0	570.1	95.8	14.8
67000.0	55.2	-58.6			89.7	570.6	94.0	16.6
67500.0	53.9	-58.2			87.4	571.2	92.9	20.1

SATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 189

UPPER AIR DATA  
1830030185  
JALLEN

TABLE 8 (continued)

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

GEOMETRIC PRESSURE	TEMPERATURE	REL.HUM.	SPEED OF SOUND	WIND DATA	INDEX
ALITUDE MSL FT	AIR DEPOINT DEGREES CENTIGRADE	PERCENT	KNOTS	DIRECTION DEGREES (IN)	OF REFRACTION
68000.0	52.6	-57.8	85.1	571.7	92.2
68500.0	51.4	-57.4	82.9	572.2	91.8
69000.0	50.1	-57.0	80.8	572.7	91.4
69500.0	49.0	-56.6	79.8	573.1	91.1
70000.0	47.8	-56.2	76.9	573.4	90.8
70500.0	46.7	-56.3	75.0	573.7	90.4
71000.0	45.6	-56.0	73.2	574.1	89.6
71500.0	44.5	-55.8	71.4	574.4	88.4
72000.0	43.3	-55.5	69.6	574.7	87.5
72500.0	42.5	-55.2	67.9	575.1	86.9
73000.0	41.3	-55.0	66.3	575.4	86.6
73500.0	40.5	-54.7	64.6	575.7	86.6
74000.0	39.6	-54.5	63.1	576.1	86.3
74500.0	38.7	-54.2	61.5	576.4	84.9
75000.0	37.7	-54.0	60.0	576.8	81.7
75500.0	36.9	-53.7	58.5	577.1	79.5
76000.0	36.0	-53.5	57.1	577.4	81.0
76500.0	35.2	-53.2	55.7	577.8	82.5
77000.0	34.3	-53.0	54.3	578.1	83.8
77500.0	33.5	-52.7	53.0	578.4	88.0
78000.0	32.8	-52.5	51.7	578.8	92.5
78500.0	32.0	-51.9	50.4	579.5	96.9
79000.0	31.3	-51.2	49.1	580.3	47.8
79500.0	30.5	-50.6	48.6	581.2	46.6
80000.0	29.8	-50.0	47.4	582.0	45.4
80500.0	29.2	-49.4	44.3	582.8	44.3
81000.0	28.5	-48.8		583.5	

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80  
ASCENSION NO. 103030105

MANDATORY LEVELS  
JALLEN  
103030105

GEOGRAPHIC COORDINATES  
33°16'12" LAT DEG  
106°49'51" LON UEG

TABLE 9.

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES	DEWPONT CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5071.	22.1	11.5	51.	105.6	2.3
800.0	6703.	19.3	9.2	52.	182.9	4.7
750.0	8607.	16.3	6.7	53.	213.5	9.2
700.0	10521.	12.1	3.9	57.	253.7	10.6
650.0	12541.	6.5	.8	66.	241.5	22.2
600.0	14691.	4.0	-5.1	51.	223.8	21.9
550.0	16924.	-.8	-8.0	58.	198.7	22.3
500.0	19470.	-6.0	-14.0	53.	179.1	22.9
450.0	22154.	-11.2	-15.9	68.	169.8	20.7
400.0	25085.	-18.1	-22.0	71.	187.1	19.7
350.0	28317.	-24.3	-32.1	48.	187.0	22.1
300.0	31943.	-32.9	-41.4	42.	194.7	16.7
250.0	36063.	-43.1			181.3	19.7
200.0	40869.	-53.5			189.4	15.4
175.0	43659.	-58.0			185.9	13.6
150.0	46812.	-61.2			162.8	15.5
125.0	50481.	-66.3			187.8	16.6
100.0	54848.	-70.4			77.7	6.8
80.0	59224.	-67.5			95.3	19.6
70.0	61896.	-62.4			138.3	8.3
60.0	65036.	-59.9			101.6	16.5
50.0	68797.	-57.0			91.4	21.7
40.0	73458.	-54.6			86.6	21.8
30.0	79549.	-50.1				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

